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(54) Title: PROCESS FOR MAKING HIGH-PERFORMANCE POLYETHYLENE MULTIFILAMENT YARN

(57) Abstract: The invention relates to a process for making high-performance polyethylene multi-filament yarn comprising the steps of making a solution of ultra-high molar mass polyethylene in a solvent; spinning of the solution through a spinplate containing a plurality of spinholes into an air-gap to form fluid filaments, while applying a draw ratio  $DR_{fluid}$ ; cooling the fluid filaments to form solvent-containing gel filaments; removing at least partly the solvent from the filaments; and drawing the filaments in at least one step before, during and/or after said solvent removing, while applying a draw ratio  $DR_{solid}$ , wherein in a draw ratio  $DR_{fluid} = DR_{sp} \times DR_{ag}$  of at least 50 is applied, wherein  $DR_{sp}$  is the draw ratio in the spinholes and  $DR_{ag}$  is the draw ratio in the air-gap, with  $DR_{sp}$  greater than 1 and  $DR_{ag}$  at least 1. The invention further relates to a spinplate having spinholes of specific geometry.



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